

CLAIMS

1. A juvenile seat comprising
a base including a bottom seat portion,
5 a lower back section coupled to the base and positioned to lie at an
angle relative to the bottom seat portion,
a headrest coupled to the lower back section for up and down
movement relative to the base and the lower back section, the headrest including a
back plate and first and second side wall portions coupled to the back plate, and
10 a height-adjustment mechanism for adjusting a height of the headrest
above the bottom seat portion, the height-adjustment mechanism including an actuator
coupled to one of the first and second side wall portions of the headrest for up and
down movement with the headrest, the actuator being arranged to move between a
locked position to prevent up and down movement of the headrest relative to the
15 lower back section and an unlocked position to permit up and down movement of the
headrest relative to the lower back section.
2. The juvenile seat of claim 1, wherein the height-adjustment
mechanism further includes a height-adjustment bar coupled to the actuator and bar
20 receivers provided in the lower back section, and the height-adjustment bar is
provided to engage the bar receivers in the locked position to secure the headrest at a
desired height relative to the bottom seat portion and to disengage the bar receivers in
the unlocked position.
- 25 3. The juvenile seat of claim 2, wherein the actuator is a first
actuator, the juvenile seat further includes a second actuator, the first actuator is
coupled to the first side wall portion of the headrest, and the second actuator is
coupled to the second side wall portion of the headrest.
- 30 4. The juvenile seat of claim 3, wherein the height-adjustment bar
includes a first end portion coupled to the first actuator and a second end portion
coupled to the second actuator.

5. The juvenile seat of claim 3, wherein the height-adjustment bar is a first height-adjustment bar coupled to the first actuator and further including a second height-adjustment bar coupled to the second actuator.

5 6. The juvenile seat of claim 2, wherein the actuator includes an anchor member coupled to the one of the first and second side wall portions of the headrest, a push-button coupled to the height-adjustment bar and movable relative to the anchor member between the locked position and the unlocked position, and a spring coupled to the push-button to bias the push-button to the locked position where 10 the height-adjustment bar is engaged with the bar receivers.

15 7. The juvenile seat of claim 6, wherein the lower back section includes a front wall and first and second side walls coupled to the front wall, and wherein the bar receivers are vertically-spaced slots formed within one of the first and second side walls to receive a portion of the height-adjustment bar therein.

20 8. The juvenile seat of claim 6, wherein the anchor member includes a guide slot formed to receive the height-adjustment bar therein to permit back and forth movement of the height-adjustment bar between the locked and unlocked positions.

25 9. The juvenile seat of claim 6, wherein the push-button is movable between the locked and unlocked positions along a first axis and the headrest is movable up and down relative to the base and the lower back section along a second axis perpendicular to the first axis.

10. The juvenile seat of claim 1, wherein the lower back section includes a front surface and the headrest is positioned adjacent the front surface of the lower back section.

11. The juvenile seat of claim 1, further comprising an anti-backout mechanism coupled to the headrest to limit the height of the headrest above the bottom seat portion of the base.

5 12. The juvenile seat of claim 11, wherein the anti-backout mechanism includes a stopper coupled to one of the first and second side wall portions of the headrest to engage a top wall of the lower back section.

10 13. The juvenile seat of claim 12, wherein the stopper is a tab positioned at an angle relative to a vertical axis along the side wall portion.

15 14. The juvenile seat of claim 13, wherein the tab is arranged to be moved between an opened, angled position engageable with the top wall of the lower back section and a closed, vertical position adjacent with the side wall portion of the headrest to pass through a notch formed in the lower back section.

20 15. The juvenile seat of claim 12, wherein the anti-backout mechanism further includes a flange coupled to one of the first and second side wall portions of the headrest, the flange is formed to define a channel for receiving a portion of the respective first or second side wall of the lower back section therein, and the stopper is coupled to the flange.

25 16. The juvenile seat of claim 11, wherein the anti-backout mechanism is positioned above the actuator of the height-adjustment mechanism.

17. A juvenile seat comprising
a base having a bottom seat portion,
a lower back section coupled to the base to lie at an angle to the bottom seat portion of the base,
30 a headrest coupled to the lower back section for up and down movement relative to the lower back section, the headrest being movable between a

locked position prevented from moving up and down relative to the base and an unlocked position able to be moved up and down relative to the base, and

means for adjusting a height of the headrest above the base, the height-adjusting means being coupled to a side wall of the headrest to provide for side 5 operation of the height-adjusting means.

18. The juvenile seat of claim 17, wherein the height-adjusting means includes means for moving the headrest to the unlocked position and means for moving the headrest to the locked position, the means for moving the headrest to the 10 unlocked position being coupled to a side wall of the headrest.

19. The juvenile seat of claim 18, wherein the means for moving the headrest to the locked position includes a plurality of vertically-spaced slots provided in the lower back section and a height-adjustment bar coupled to the means 15 for moving the headrest to the unlocked position and biased to be received within the vertically-spaced slots in the locked position.

20. The juvenile seat of claim 19, wherein the means for moving the headrest to the locked position further includes a spring positioned to bias the 20 height-adjustment bar into engagement with one of the vertically-spaced slots.

21. The juvenile seat of claim 19, wherein the means for moving the headrest to the unlocked position includes a push-button coupled to the height-adjustment bar to move the height-adjustment bar to the unlocked position disengaged 25 from the vertically-spaced slots.

22. The juvenile seat of claim 17, wherein the side wall of the headrest is a first side wall and the headrest includes a second side wall, and wherein the height-adjusting means includes a first actuator coupled to the first side wall and a 30 second actuator coupled to the second side wall, a first height-adjustment bar coupled to the first actuator and a second height-adjustment bar coupled to the second actuator, a plurality of vertically-spaced slots provided in the lower back section and

formed to receive the height-adjustment bars therein in the locked position, and
wherein the first and second actuators are movable between an locked position
wherein the height-adjustment bars are each engaged with one of the vertically-spaced
slots and a locked position where the height-adjustment bars are disengaged from the
5 vertically-spaced slots.

23. The juvenile seat of claim 22, wherein each of the first and
second actuators includes an anchor mount coupled to the headrest, a push-button
coupled to the respective one of the first and second height-adjustment bars and
10 movable relative to the respective anchor mount between the locked and unlocked
positions, and a spring positioned to bias the respective push-button to the locked
position.

24. The juvenile seat of claim 17, wherein the side wall of the
15 headrest is a first side wall and the headrest includes a second side wall, and wherein
the height-adjusting means includes a first actuator coupled to the first side wall and a
second actuator coupled to the second side wall, a height-adjustment bar having a first
end coupled to the first actuator and a second coupled to the second actuator, a
plurality of vertically-spaced slots provided in the lower back section and formed to
20 receive the height-adjustment bar therein in the locked position, and wherein the first
and second actuators are movable between an locked position wherein the height-
adjustment bar is engaged with one of the vertically-spaced slots and a locked
position where the height-adjustment bar is disengaged from the vertically-spaced
slots.

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25. The juvenile seat of claim 24, wherein each of the first and
second actuators includes an anchor mount coupled to the headrest, a push-button
coupled to the height-adjustment bar and movable relative to the respective anchor
mount between the locked and unlocked positions, and a spring positioned to bias the
30 respective push-button to the locked position.

26. The juvenile seat of claim 17, further comprising means for preventing the headrest from being removed from the lower back section as the headrest is being moved upwardly relative to the lower back section.

5 27. The juvenile seat of claim 26, wherein the preventing means includes a tab coupled to the side wall of the headrest, positioned at an angle relative to a vertical axis along the side wall of the headrest, and adapted to engage a top wall of the lower back section.

10 28. The juvenile seat of claim 27, wherein the tab is movable between an opened, angled position engageable with the top wall of the lower back section and a closed, vertical position adjacent with the side wall portion of the headrest to pass through a notch formed in the lower back section.

15 29. A juvenile seat comprising
a base having a bottom seat portion,
a lower back section coupled to the base to lie at an angle to the bottom seat portion of the base,

20 a plurality of vertically-spaced slots provided in the lower back section,

a headrest coupled to the lower back section for up and down movement relative to the lower back section, the headrest including a back plate, a first side wall coupled to the back plate, and a second side wall coupled to the back plate and spaced-apart from the first side wall,

25 a first actuator coupled to the first side wall and formed to include a first spring and a first push-button,

a second actuator coupled to the second side wall and formed to include a second spring and a second push-button,

30 a first height-adjustment bar coupled to the first push-button, and a second height-adjustment bar coupled to the second push-button, each height-adjustment bar being movable between a locked position engaged with

one of the slots provided in lower back section and an unlocked position disengaged from the slots provided in the lower back section.

30. The juvenile seat of claim 29, wherein the first side wall of the
5 headrest includes a first horizontal guide slot formed to receive the first height-
adjustment bar therethrough and the second side wall of the headrest includes a
second horizontal guide slot formed to receive the second height-adjustment bar
therethrough to allow each of the first and second height-adjustment bars to move
horizontally back and forth relative to the headrest between the locked and unlocked
10 positions.

31. The juvenile seat of claim 29, wherein the first and second
actuators each include an anchor mount coupled to one of the respective first and
second side walls of the headrest, and wherein each anchor mount includes a channel
15 formed to receive the respective first and second springs therein.

32. The juvenile seat of claim 31, wherein the anchor mount of
each of the first and second actuators includes a flange formed to define a slot
between the flange and each respective first and second side wall, and wherein each
20 slot is formed to receive a portion of the lower back section therein.

33. The juvenile seat of claim 31, wherein each of the first and
second actuators further includes an outer cover coupled to the respective anchor
mount and the push-button of each of the first and second actuators is positioned
25 between the respective anchor mount and the respective outer cover.

34. The juvenile seat of claim 29, wherein the lower back section is
positioned between the back plate, first side wall, and second side wall of the
headrest.

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35. The juvenile seat of claim 34, wherein the lower back section
includes a planar wall adjacent the back plate of the headrest, a first side wall coupled

to the planar wall and position adjacent the first side wall of the headrest, and a second side wall coupled to the planar wall and positioned adjacent the second side wall of the headrest.

5 36. The juvenile seat of claim 35, wherein the vertically-spaced slots include a first set of vertically-spaced slots formed in the first side wall of the lower back section and a second set of vertically-spaced slots formed in the second side wall of the lower back section.